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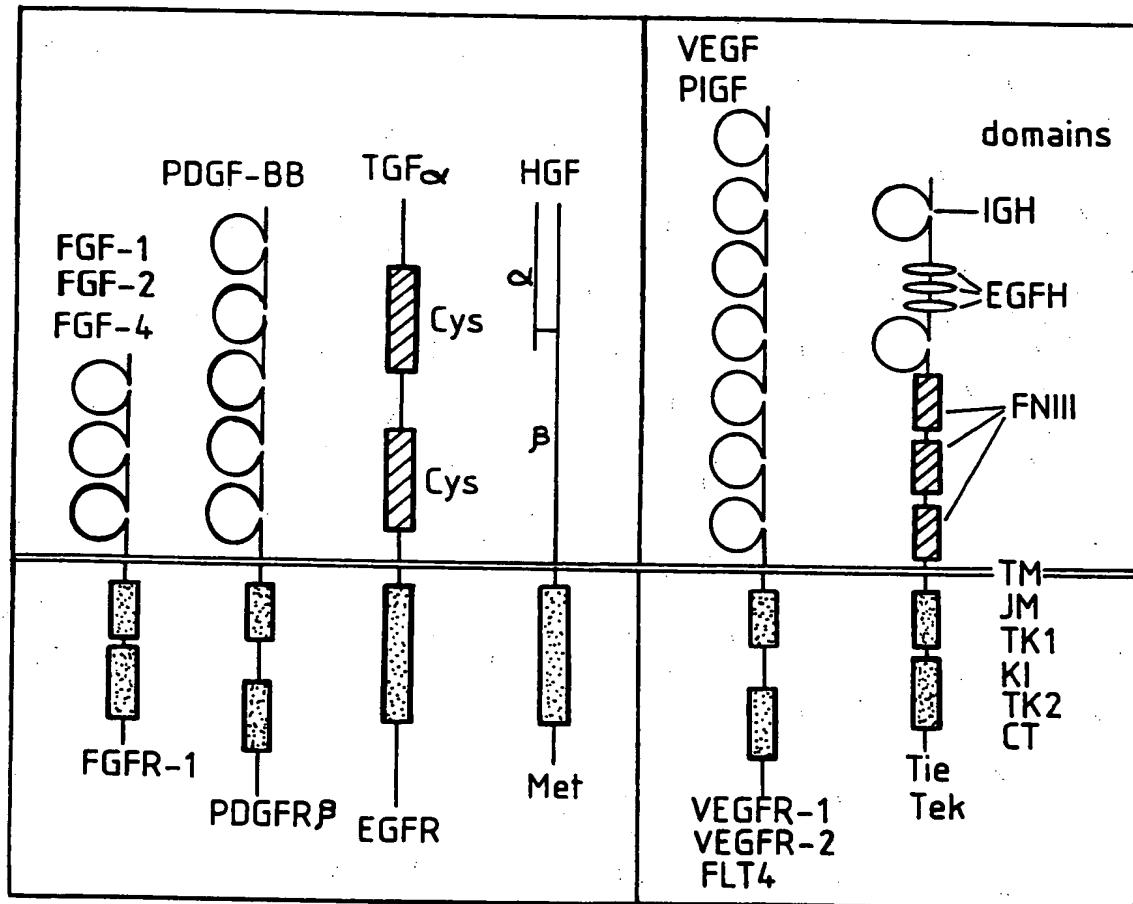


FIG. I



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<b>1</b> PDGF-A ..... PDGF-B ..... P1GF-1 ..... VEGF165 ..... VEGF-B167 ..... VEGF-C .....  <b>51</b> PDGF-A LGGYLAHV L AEEAEIPREV IIERLARSQIH SIRDLQRILLE IDSVGSEDSL PDGF-B SLCCYLRV S AEGDPIEEL YEMLSDHSIR SFDDLQRLLH GDP. GEEDGA P1GF-1 ..... VEGF165 ..... VEGF-B167 ..... VEGF-C MHLGGFFSVA CSLLAAALLP GPREAPAAA AFESGLLSD AEPDAGEATA	<b>50</b> ..... MRTLACLLL ..... MNRCWA.LFL  <b>100</b> ..... ..... ..... ..... .....  <b>101</b> PDGF-A DTSLRAHGVH ATKHVPEKRP LPIRKRRI. .... EEAVP AVCKTRTVY PDGF-B ELDLMTRSH SGGELES... LARGRRSLG SLTIAEPAMI AECKTRTEVF P1GF-1 .... ALSAG NGSSEVEVVP FQE. VWGR. .... SYCRALERLV VEGF165 .... PMAEG GGQNHHEVVK FMD. VYQR. .... SYCHPIETLV VEGF-B167 .... D APGHQRKVVS WID. VYTR. .... ATCOPREVVV VEGF-C YASKDLEEQI RSVSSVDELM TVLYPEYWKW YKCQLRKGGW QHNREQANLN	<b>150</b> ..... ..... ..... ..... .....  <b>151</b> PDGF-A EIPRSQVDPT SANFLIWPPC VEVKRCTGCC NTSSVVKCOPS RVHHRSVKVA PDGF-B EISRRRIDRT NANFLWPPC VEYQRCSGCC NNRNVQCRPT QVQLRPVQVR P1GF-1 DVVSEYPSEV .. EHMFSPSC VSLLRCTGCC GDENLHCVPV ETANVTMOLL VEGF165 DIFQEYQPDEI .. EYIFKPSC VPLMRCGGCC NDEGLECVPT EESNITMQIM VEGF-B167 PLTVELMGTV .. AKQLVPSC VTIVQRCGGCC PDDGLECVPT GQHQVRMQL VEGF-C DVGKEFGVAT .. NTFFKPPC VSVYRCGGCC NSEGLQCMTN STSYLSKTLF	<b>200</b> ..... ..... ..... .....  <b>FIG. 2A</b>
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FIG. 2B

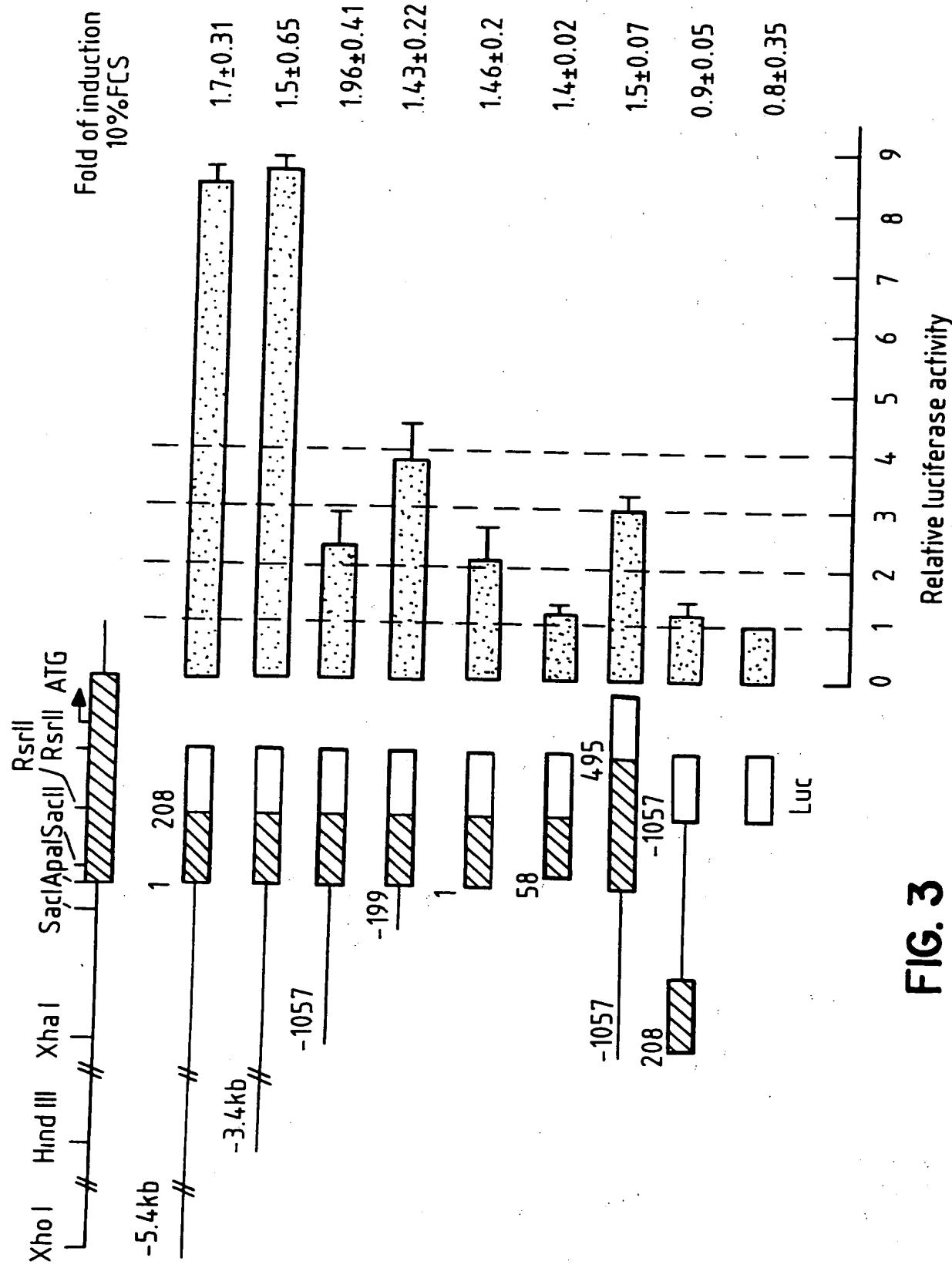


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FIG. 2C



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**FIG. 3**

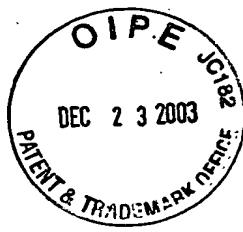
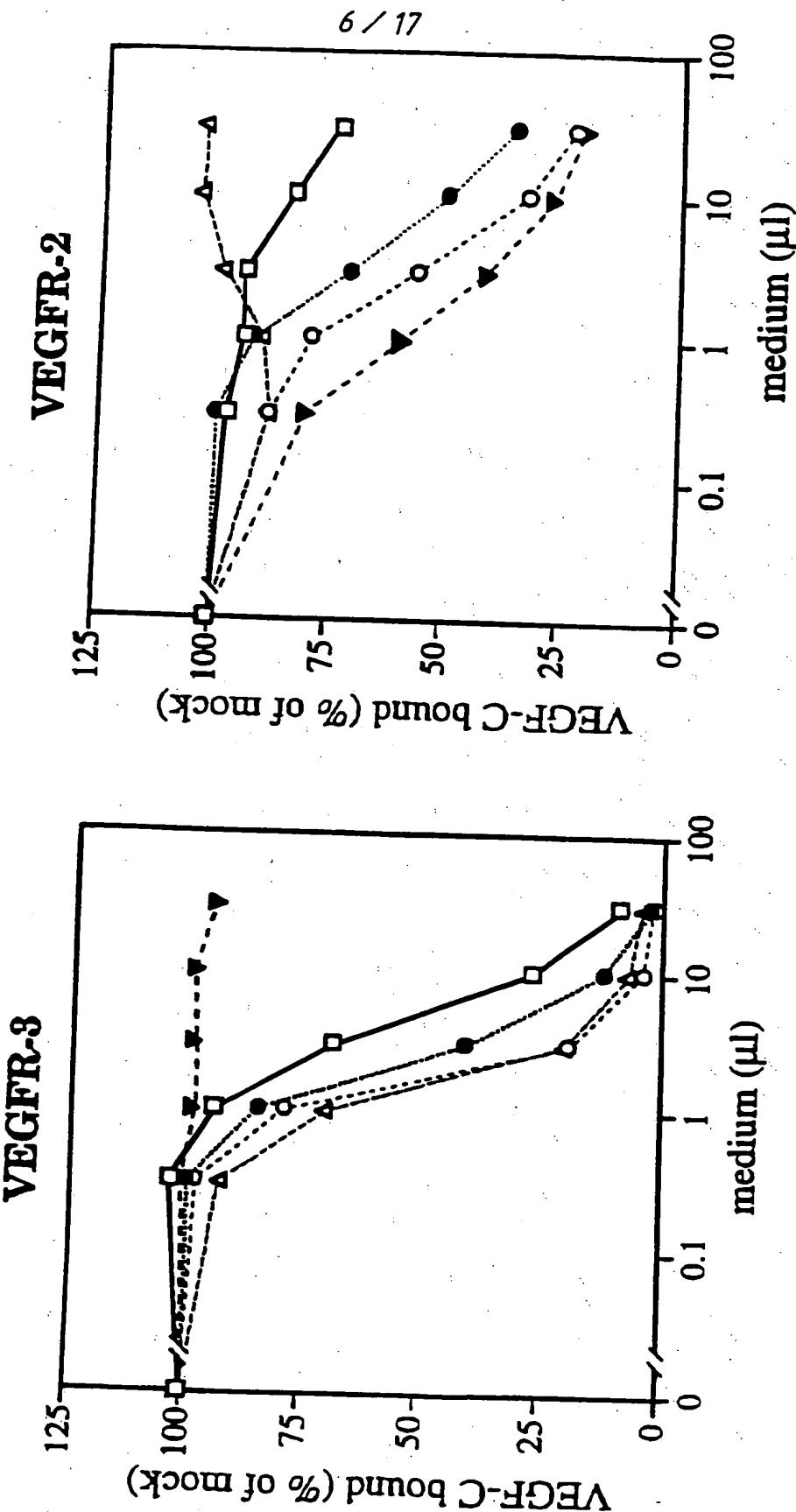


FIG. 4





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VEGF-C alignment

	1		50
Hum	HMLLGFFSVA	CSLLAAALLP	GPREAPAAAA AFESGLDLSD AEPDAGEATA
Mou	MHLLCFLSLA	CSLLAAALIP	SPREAPATVA AFESGLGFSE AEPDGGEVKA
Qua	MHLLEMLSLG	CCLAAGAVLL	GPRQPPVA.A AYESGHGYYE EEPGAGEPKA
	51		
Hum	YASKDLEEQL	RSVSSVDELM	TVLYPEYWM YKCQLRKGGW QHNREQANLN
Mou	FEGKDLEEQL	RSVSSVDELM	SVLVPDYWM YKCQLRKGGW Q....OPTLN
Qua	HASKDLEEQL	RSVSSVDELM	TVLYPEYWM FKCQLRKGGW QHNREHSSSD
	101		
Hum	SRTEETIKFA	AAHYNTEILK	SIDNEWRKTQ CMPREVCIDV GKEFGVATNT
Mou	TRTGDSVKFA	AAHYNTEILK	SIDNEWRKTQ CMPREVCIDV GKEFGAATNT
Qua	TRSDDDSLKFA	AAHYNAEILK	SIDTEWRKTQ GMMPREVCVDL GKEFGATTNT
	151		
Hum	FFKPPCVSVY	RCGGCCNSEG	LQCMNTSTSY LSKTLFEITV PLSQGPKPVT
Mou	FFKPPCVSVY	RCGGCCNSEG	LQCMNTSTGY LSKTLFEITV PLSQGPKPVT
Qua	FFKPPCVSIY	RCGGCCNSEG	LQCMNISTNY ISKTLFEITV PLSHGPKPVT
	201		
Hum	ISFANHTSCR	CMSKLDVYRQ	VHSIIIRRSLP ATLPQCQAAN KTCPTNYMWN
Mou	ISFANHTSCR	CMSKLDVYRQ	VHSIIIRRSLP ATLPQCQAAN KTCPTNYVWN
Qua	VSFANHTSCR	CMSKLDVYRQ	VHSIIIRRSLP ATQTQCHVAN KTCPKNHVWN
	251		
Hum	NHICRCLAQE	DFMFSSDAGD	DSTDGFHDIC GPNKELDEET CQCVCRAGLR
Mou	NYMCRCLAQQ	DFIFYSNVED	DSTNGFDVDC GPNKELDEDT CQCVCKGGLR
Qua	NQICRCLAQH	DFGFSSHLDG	SDTSEGFHIC GPNKELDEET CQCVCKGGVR
	301		
Hum	PASCGPHKEL	DRNSCQCVCK	NKLFPSQCGA NREFDENTCQ CVCKRTCPNR
Mou	PSSCGPHKEL	DRDSCQCVCK	NKLFPNSCGA NREFDENTCQ CVCKRTCPNR
Qua	PISCGPHKEL	DRASCQCMCK	NKLLPSSSCGP NKEFDEEKCQ CVCKKTCPKH
	351		
Hum	QPLNPGKCAC	ECTESPQKCL	LKGKKFHHQT CSCYRRPCTN RQKACEPGFS
Mou	QPLNPGKCAC	ECTENTQKCF	LKGKKFHHQT CSCYRRPCAN RLKHCDPGLS
Qua	HPLNPACKCIC	ECTESPNKCF	LKGKRFHHQT CSCYRPPCTV RTKRCDAFL
	401	420	
Hum	YSEEVCRCVP	SYWKRPQMS*	
Mou	FSEEVCRCVP	SYWKRPHLN.	
Qua	LAEEVCRCVR	TSWKRPLMN*	

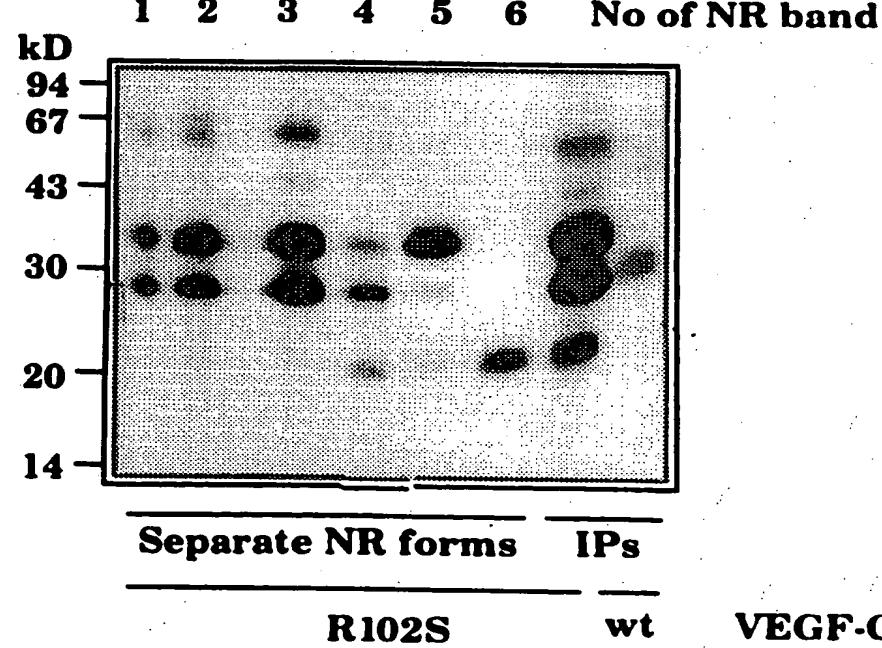
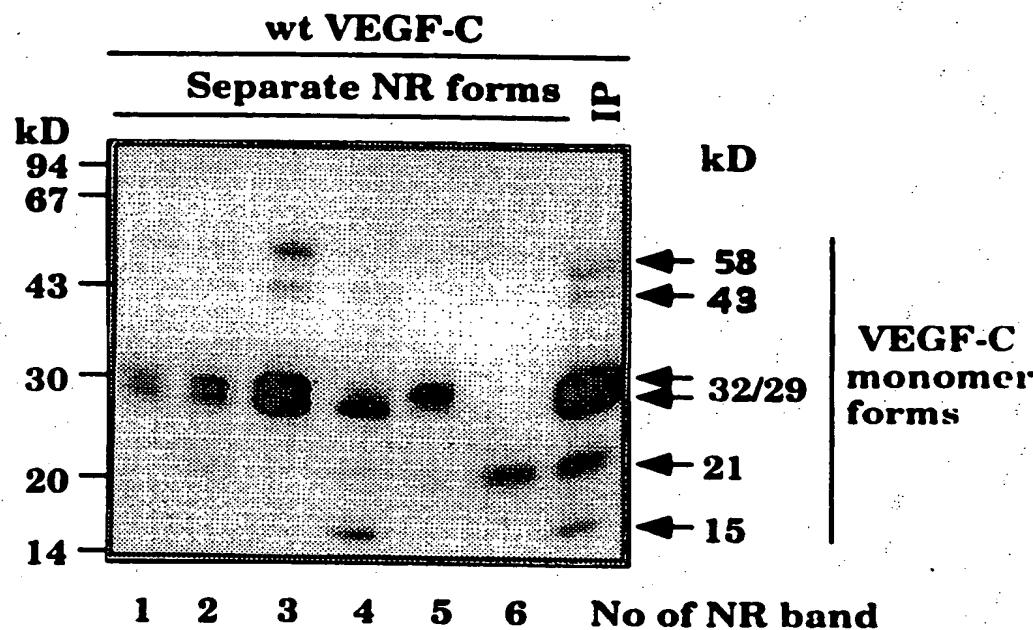
FIG. 5



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### Reducing

**FIG. 6A**



**FIG. 6C**



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### Non-reducing

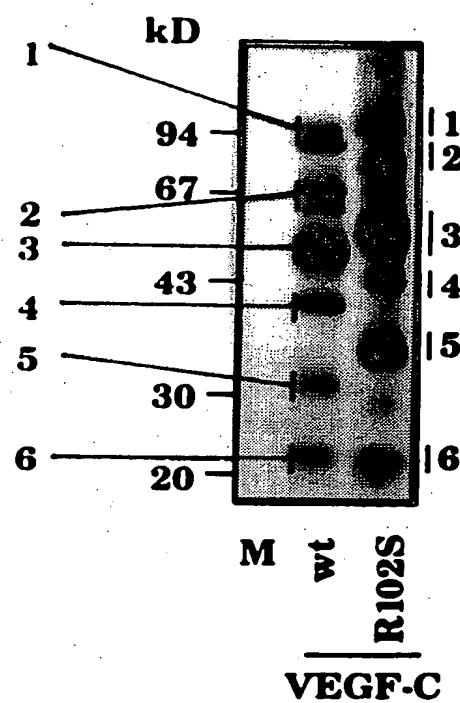


FIG. 6B



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FIG. 7A

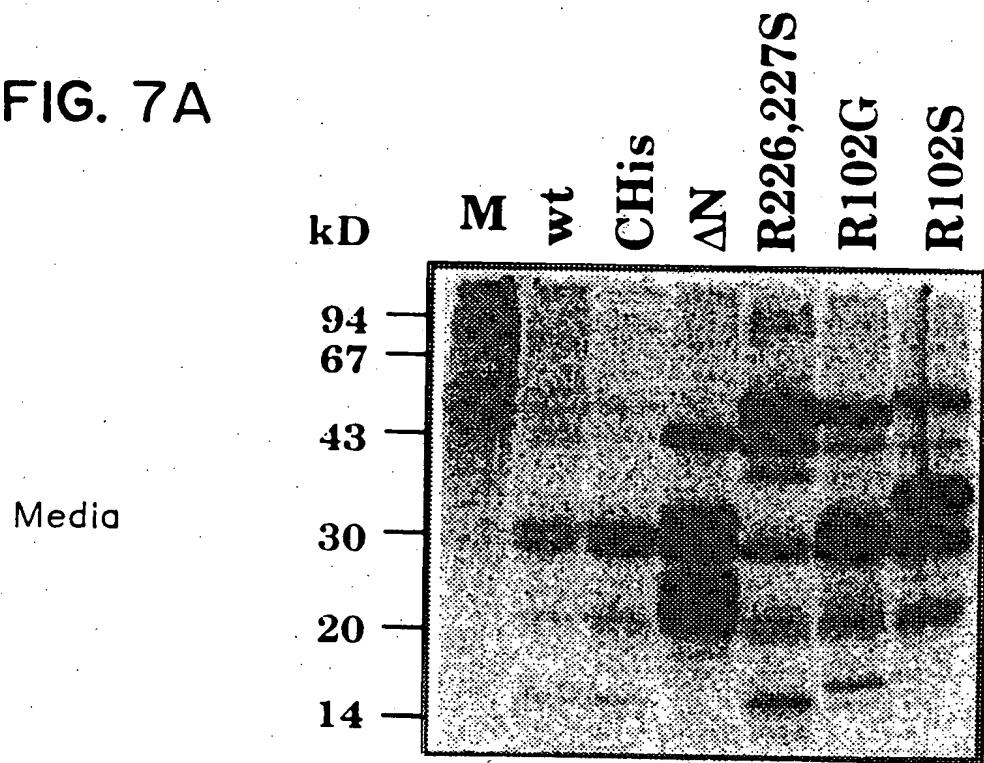
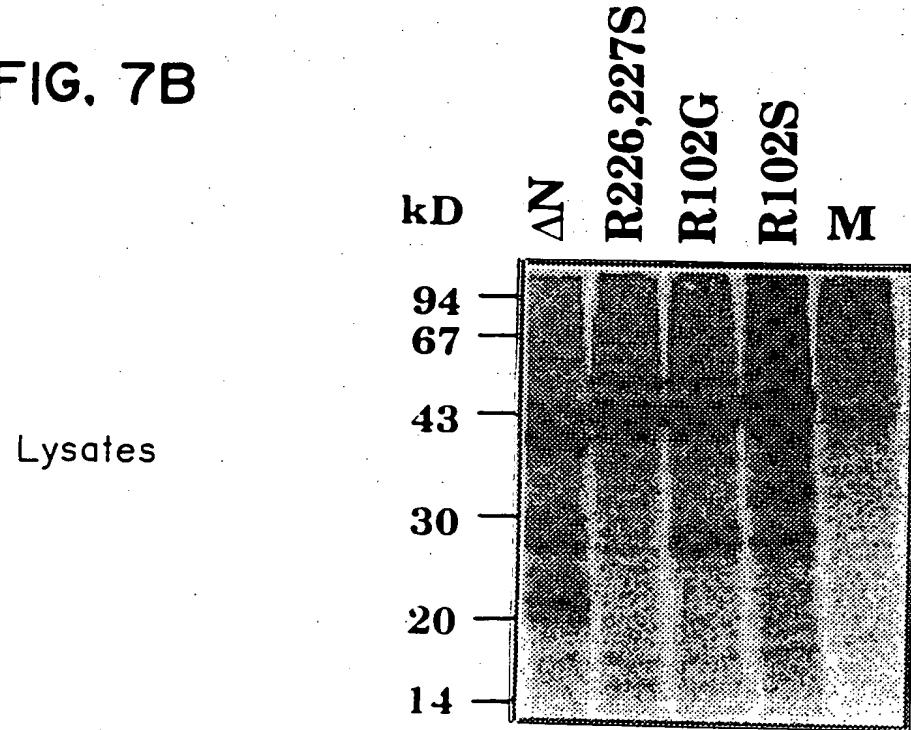


FIG. 7B





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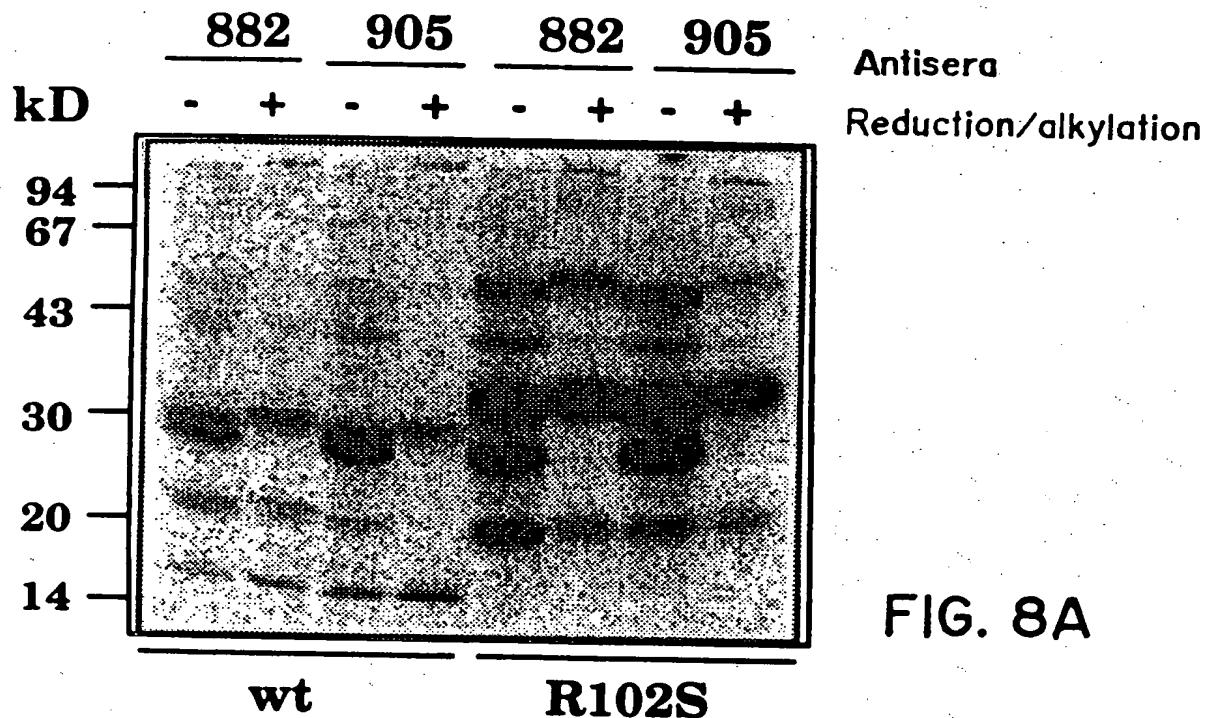


FIG. 8A

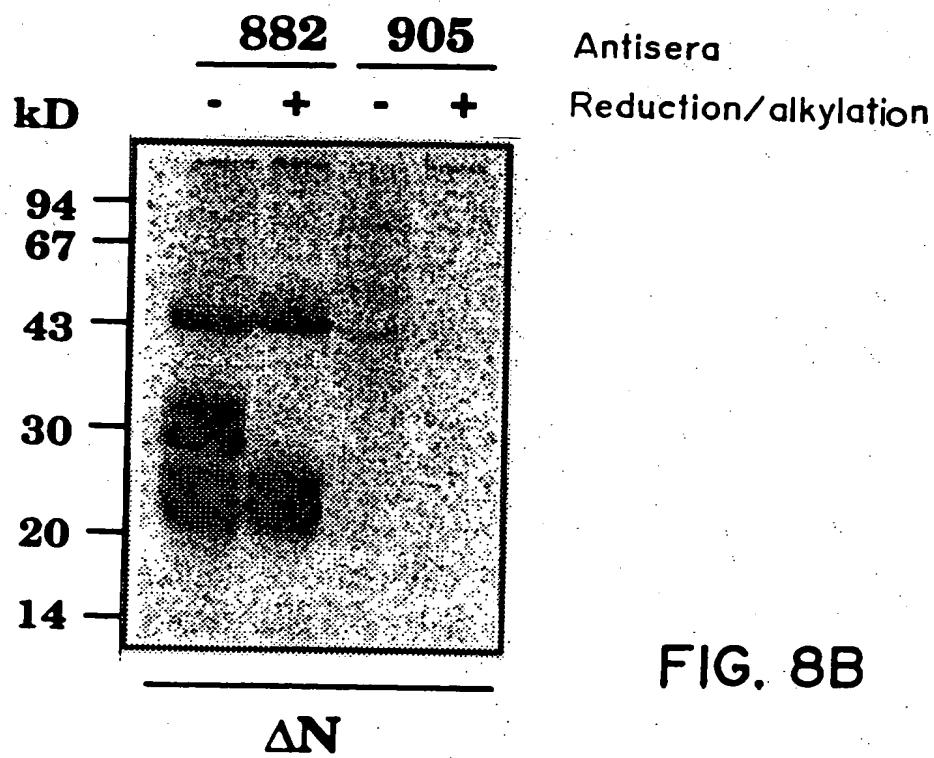
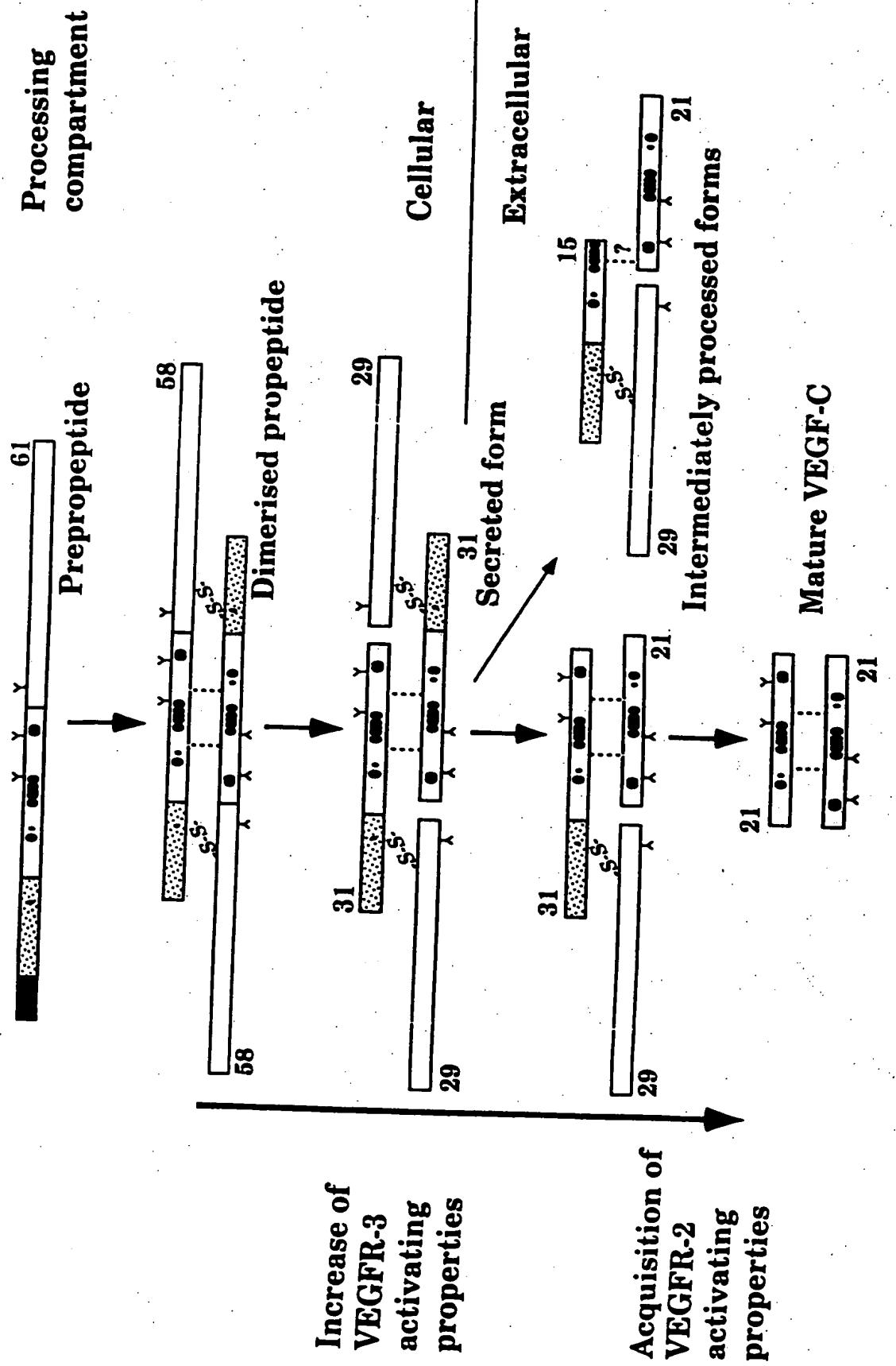


FIG. 8B



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**FIG. 9**



N-terminal propeptide  
Signal sequence

31 ▼ 32

MHLLCFLSLACLLAALISSLSPREAPATVAA  
.....G.F.V.....L.G.....AA.....

mouse  
human

98 SSVDELMSVLYPDYWKMYKCQLRKGGWQ. . . QPTLNTR  
HNRE AN S

VEGFR homology

C. . . . . C. C. . . . .  
 CMNTSTGYSKTLFEITVPLSQGPKPVTISFANHTSCR CMSKLDVYRQH SIIIR  
 S. . . . . S. . . . .

FIG. 10A



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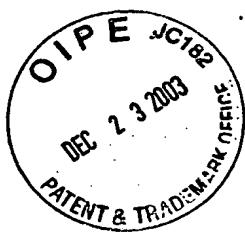
## BR3P homology

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RSLPATLQCQAANKTCPTNYVWN <sup>M</sup> CRC	LAQQDFIFYSNVEDSTNGFHDVCGPNKELDEDTCQCVCKGGLRPSS
M...H]	E..M..S..DAG...J
CGPHKELDRDSCQCVCCKNKLFPNS	N.....SQ
CGANREFDENTCQCVCCKRT	R.....
CPRNQPLNPGRKCACEC	
TENTQKCFLKGGKFHHQTCSCYRRP	SP...L.....
CANRLKHCDPGLSFSEEVCRCPVPSYWKRPHLN	T..Q.A.E..GF.Y.....QMS

FIG. IOB

415



HUMAN Exon length	Donor site	Intron length	Acceptor site
E1 . . . . .	G. . . E. . . A. . . T(49) . . . . .	. . . . .	A. . . Y. . . A. . . S.
E1 . . . . .	GGC.GAG.GCC.ACG.gtaggtctgcgt. . . . .	>10.kb . .	TTTCTTGTACAG.GCT.TAT.GCA.AGC
E2 . . . . .	E. . . I. . . L. . . K(116) . . . . .	. . . . .	S. . . I. . . D. . . N.
E2 . 214.bp . .	GAG.ATC.TTG.AAA.Agtaaagtatggg. . . . .	1 . 6 . kb . . .	atgacttgacaggT.ATT.GAT.AAT
E3 . . . . .	L. . . S. . . K. . . T(180) . . . . .	. . . . .	L. . . F. . . E. . . I.
E3 . 191.bp . .	CTC.AGC.AAG.ACG.gtgggtattgt. . . . .	9 . kb . .	cccttctttgttag.TTA.TTT.GAA.ATT
E3 . . . . .	T. . . L. . . P. . . Q(231) . . . . .	. . . . .	C. . . Q. . . A. . . A.
E4 . 152.bp . .	ACA.CTA.CCA.CAgtgagttatgaattaaa. . . . .	>10.kb . .	ttcttccaaagg.TGT.CAG.GCA.GCG
E4 . . . . .	A. . . G. . . D. . . (266) . . . . .	. . . . .	D. . . S. . . T. . . D.
E5 . 107.bp . .	GCT.GGA.GAT.Ggttagcagaatg. . . . .	301.bp . . .	ctatttgccttagAC.TCA.ACA.GAT
E5 . . . . .	Q. . . T. . . C. . . S(378) . . . . .	. . . . .	C. . . Y. . . R. . . R.
E6 . 334.bp . .	CAA.ACA.TGC.AGgtaaagatcc. . . . .	>10.kb . . .	tgttctccatgC.TGT.TAC.AGA.CGG
E6 . . . . .	Q. . . M. . . S(419) Stop. . . . .	. . . . .	
E7 . (501).bp . .	CAA.ATG.AGC.TAA.GTATGTACTGTT. . . . .	ATTGTATTAT	

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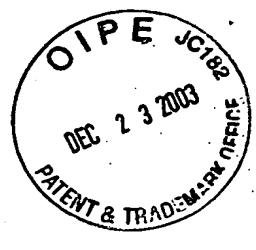
FIG. II A



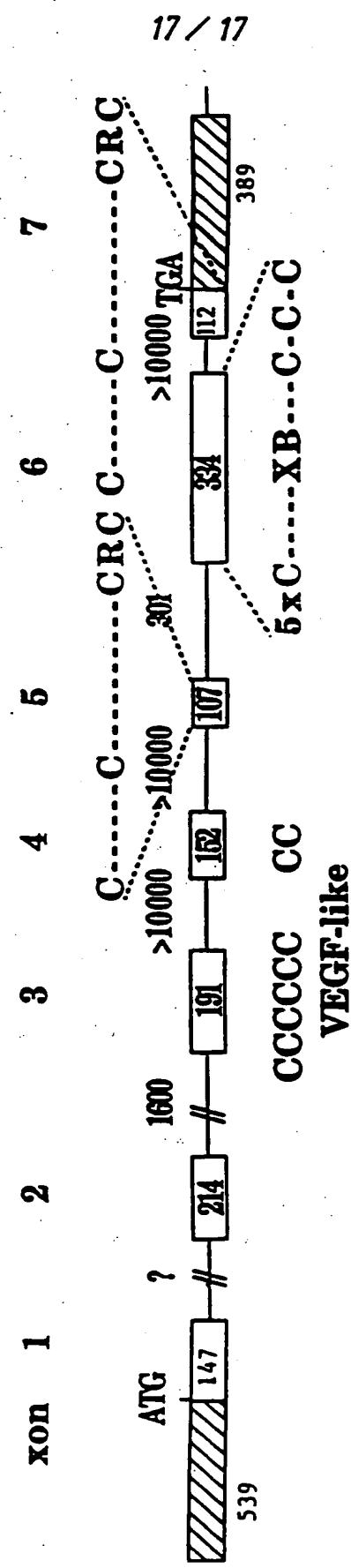
MOUSE	Exon length	Donor site	Intron length	Acceptor site
E1	.....	G...E...V...K(49).....	.....	A...F...E...G.
	GGC.GAG.GTC.AAG.gtaggttgcagg.>10.kb.attgtctttgacag.GCT.TTT.TGA.AGG			
E2	201 bp	E...I...L...K(116).....	.....	S...I...D...N.
	GAG.ATC.CTG.AAA.Agtaaatgg...	4 kb	tgtgactcgacaggT.ATT.GAT.AAT	
E3	191 bp	L...S...K...T(180).....	.....	L...F...E...I.
	CTC.AGC.AAG.ACG.gtaggtat.....	9 kb	ttgtcccttgttag.TTG.TTT.GAA.ATT	
E4	152 bp	T...L...P...Q(231).....	.....	C...Q...A...A.
	ACA.TTA.CCA.CAGtgaggatq.....	10 kb	gtctcccaaagg.TGT.CAG.GCA.GCT	
E5	107 bp	N...V...E...D(266).....	.....	D...S...T...N.
	AAT.GTT.GAA.GAT.Ggtaaataaaa...	350 bp	tcttagAC.TCA.ACC.AAT	
E6	334 bp	Q...T...C...S(378).....	.....	C...Y...R...R.
	CAA.ACA.TGC.AGgtaaaggatgt...	6 kb	ttttcccttagT.TGT.TAC.AGA.AGA	
E7	506 bp	H...L...N(415) Stop.....	polyA.....	
	CAT.CTG.AAC.TAA.GATCATACC...	ATTGTATTATAAgctgtgaag		

FIG. II B

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## Schematic structure of the human VEGF-C gene



P1

୩  
୮

λ 5

FIG. 12